**Medironic** 

NO. 8407

## INVENTION DISCLOSURE FORM

WARNING: Due to the confidential nature of this document, save it as a password protected document. Do not send this document through GroupWise.

This is a WORD Template form. Press enter or tab to move to each field. Please fill out this form as completely as possible. If the allotted space is not sufficient, use a separate sheet. Have your manager sign the form and forward it to the Patent Section of the Law Department, LC340. Please attach any drawings and technical descriptions that are available and assemble copies of the background articles, books, advertisements, etc. for use by your patent attorney,

1.	Inventor(s)	Employee	Mail	•				
	Full Name(s)	Number	Stop	Home Address (Include Zip Code)				
	Daniel Sigg	65322	B252	1485 Hoyt Ave W. Saint Paul, MN 55108				
				•				
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2.	Title of Invention: Nitric oxide releasing medical device							
other powould parts ar	d by polymers currelymer parts of merevent clot formation controlled the chronically impleasue in particular in How have others products, or other	ently being used i dical devices (for on, but subsequer anted medical dev n the managemen addressed this pr	n most lead bodie example MCRD's) of fibrosis. The purices would ultimate of chronic pacing oblem (List and all crials you used or	itric oxide has the ability to prevent clot formation. Nitric oxide can be a and catheters (silicones, and polyurethanes), and conceivably from . Certain formulations allow for chronic nitric oxide release which not only pose of this technology incorporated in pacing leads or other polymer rely lead to enhanced REMOVABILITY of such devices, a major largely leads.  Itach any patents, books, articles, devices, Medironic or competitor's which may be prior art)? See attached published references by Dr. M.				
5.	The invention is described on pages 91 of Lab Notebook No. 10191 (Please attach copy).							
6.	When was a devi	ice built which incl	uded the invention	r?				
	Who built it? Where is it?							
	Who has supporting documents?							
	Who witnessed tests? When and where?							
7.	Discuss the problems which the invention is designed to solve, referring to any prior devices of a similar nature with which you may be familiar. The problem is to decrease fibrosis around the lead or catheter body, which will significantly enhance lead removability.							
8.	State the advantages of the invention over presently known devices, systems or processes. Major advantage, as currently there is no biologically or pharmacologically target therapy to decrease fibrosis in pacing leads.							
9.	List all known and other possible uses for the invention, <u>Lead removability</u> , use in sensors, in stents, in pacing lead MCRD's (electrodes)							
10.	drawings. Either ; diazenoiumdiolate Other technologie Meyerhoff's previothe ability of release pacing leads typic complicated lead i	a should be signed a silicone or polyu se. These could be a to allow continuous research which sing nitric oxide, the ally show signs of removal procedure.	, witnessed and drethane polymer vessions NO (nitric oxide he disclosed at thrombus formaties, in case of NO-	You may use and attach copies of sketches, prints, photographs and atted. Use numbers and descriptive names in descriptions and will be manufactured which contain NO-releasing functions, such as I then extruded as tubing for pacing leads or other catheter materials. It has extruded as tubing for pacing leads or other catheter materials. It has presented by Dr. a recent Forum presentation at Medironic Cardiac Surgery. Other than tuingishable from existing leads. Once implanted into the human body on, and subsequently scar formation (fibrosis). This often leads to releasing leads, the thrombus formation is attenuated or completely and fibrosis of the leads, and dramatically enhance removability.				

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Sale appli	Sale or Publication (Needed to establish the date of any printed publication, public use or sale, since no U.S. patent application may be filed after one year from such date.)						
â.	If a device has been offered, or will be offered for sale, or used and to whom delivered and how used?	for profit or otherwise publicly disclosed, state w					
b.	Has a printed description of this invention been made available and was use restricted (e.g. licensing agreement, non-disclosur	to persons outside the company? How and who agreement, proprietary legends, etc.)?					
inven	Inventor(s) Signature(s) (REQUIRED):						
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How it	Manager's Comments is this invention important to your products, plans or goals?						

Manager: Please forward to Patent Section of Law Department, LC340, upon completion of your review.

EXTRACTION OF LEADS REMAINS A RELEVANT, AND
LARGEY UNSCLUED, CLINICAL ISSUE. THIS CONCEDT

PROVIDES A LOW COST MEANS OF MANAGEING
FIBROSIS. THE CONCEPT MAY ALSO HAVE
UTILITY FOR PREVENTING FOULING OF SENSORS
AND DRUG DELIVERY CATHETERS.

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NO-RELEASING LEAD OR CATHETER BODY	
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